

In the Claims:

- 1.- (currently amended) A method for detecting rotation of a rotor of a multiple phase motor with bipolar drive, the motor comprising at least a first and a second energizable motor stator winding, the method comprising sequentially and alternately sensing a voltage on the first and the second motor stator winding at or near the end of a period of a non-energized state thereof,
wherein the method furthermore comprises storing the sensed voltage amplitude values of the first and second motor stator windings in a memory device.
- 2.- (previously presented) A method according to claim 1, wherein the sensing of the voltage on the first motor stator winding is carried out during energizing of the second motor stator winding, and wherein the sensing of the voltage on the second motor stator winding is carried out during energizing of the first motor stator winding.
- 3.- (previously presented) A method according to claim 1, wherein the sensing has a fixed or adjustable relative position in a non-energized state time-window.
- 4.- (cancelled)
- 5.- (previously presented) A method according to claim 1, furthermore comprising sensing multiple voltage samples, and storing the multiple samples in the memory device.
- 6.- (original) A method according to claim 1, wherein the motor is driven in microstepping operation.
- 7.- (original) A method according to claim 1, wherein the voltage is a back EMF.

- 8.- (original) A method according to claim 1, furthermore comprising outputting a detection signal indicative of a stalled condition of the motor.
- 9.- (original) A method according to claim 1, furthermore comprising outputting a detection signal indicative of a rotation of the motor rotor or derivatives thereof versus time.
- 10.- (previously presented) A method according to claim 1, where for sensing the voltage a unipolar signal is measured across one non-energized motor stator winding by connecting one terminal of the motor stator winding to a fixed or reference potential while measuring the voltage at an other terminal of that non-energized motor stator winding.
- 11.- (original) A method according to claim 1 excluding a three-phase motor with bipolar drive with star connected coils.
- 12.- (currently amended) An apparatus for detecting rotation of a rotor of a multiple phase motor with bipolar drive, the motor comprising at least a first and a second energizable motor stator winding, the apparatus comprising means for sequentially and alternately sensing a back electromagnetic force on the first and the second motor stator winding at or near the end of a period of a non-energized state thereof, wherein the apparatus furthermore comprises means for storing the sensed voltage amplitude values of the first and second motor stator windings.
- 13.- (original) An apparatus according to claim 12, excluding a three-phase motor with bipolar drive with star connected coils.
- 14.- (previously presented) An apparatus according to claim 12, wherein the means for sequentially and alternately sensing has means for sensing of a voltage on the first motor stator winding during energizing of the second

motor stator winding and means for sensing of a voltage on the second motor stator winding during energizing of the first motor stator winding.

- 15.- (previously presented) An apparatus according to claim 12, wherein the means for sequentially and alternately sensing has a fixed or adjustable relative position in a non-energized state time-window.
- 16.- (cancelled).
- 17.- (previously presented) An apparatus according to claim 12, wherein the means for sensing has means for sensing multiple voltage samples, further comprising means for storing the multiple samples.
- 18.- (original) An apparatus according to claim 12, furthermore comprising means for outputting a detection signal indicative of a stalled condition of the motor.
- 19.- (original) An apparatus according to claim 12, furthermore comprising means for outputting a detection signal indicative of a rotation of the motor rotor or derivatives thereof versus time.
- 20.- (previously presented) An apparatus according to claim 12, further comprising means for sensing a unipolar signal across one non-energized motor stator winding by connecting one terminal of the motor stator winding to a fixed or reference potential while measuring the voltage at an other terminal of that non-energized motor stator winding.